



PROSTATE CANCER **BIOREPOSITORY NETWORK**

Datasheet No: 009 – **342 CASE FAMILY HISTORY TMA (342FHx_TMA)**

Version No: 1, January 2021

TMA Name	342 Case Family History (342 FHx) TMA		
Description	A tissue microarray for testing biomarkers associated with hereditary risk of prostate cancer. Includes 342 cases matched positive & negative family history cases (matched on Gleason score) across 7 blocks. All cases are obtained from the NYU Site of the Prostate Cancer Biorepository Network, and are collected with institutional review board approval.		
Cases	171 specimens from radical prostatectomy patients with family history of prostate cancer, 171 specimens with no family history of prostate cancer, and cell lines.		
Sample Selection	Tumor and Normal cores are sampled from Radical Prostatectomy samples. Each case is arrayed in quadruplicate for tumor and in duplicate for normal to address possible tissue heterogeneity and preservation artifact.		
Construction	This TMA is assembled using the MTA1 microarrayer (Beecher Instruments, Sun Prairie, Wisconsin) and constructed over 1 block (April 2006)		
Diameter of cores	0.6mm	Thickness	5µm
Layout	<p>Block A: 20 columns x 20 rows, 325 cores: <i>1 orienting core of liver, 108 Family History - Tumor, 54 Family History - Normal, 108 No Family History - Tumor, 54 Family History – Normal, no cell lines</i></p> <p>Block B: 20 columns x 18 rows, 290 cores: <i>2 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p> <p>Block C: 20 columns x 18 rows, 291 cores: <i>3 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p> <p>Block D: 20 columns x 18 rows, 292 cores: <i>4 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p>		





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	<p>Block E: 20 columns x 18 rows, 293 cores: <i>5 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p> <p>Block F: 20 columns x 18 rows, 294 cores: <i>6 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p> <p>Block G: 20 columns x 18 rows, 295 cores: <i>7 orienting cores of liver, 96 Family History - Tumor, 48 Family History - Normal, 96 No Family History - Tumor, 48 Family History – Normal, 3 cell lines (from 3 prostate cancer cell lines)</i></p>
TMA Slide Types	<p>Unstained: unstained paraffin TMA slide for final analysis (90% cores present).</p> <p>Test slides: unstained paraffin TMA slide for optimization (titrating Ab and experiment conditions; up to 10% cores may be missing)</p>
Quality control	<p>H&E reviewed for core retention and accuracy of sampling.</p>
Whole slide images	<p>Whole slide scans of H&E for each block are available.</p>





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342 Case Family History TMA (n = 342)			
		<u>Number (n)</u>	<u>Percentage (%)</u>
Case Type*	Family History	171	50
	No Family History	171	50
Gleason Sum	6	138	40
	7	173	51
	8	17	5
	9	14	4
Race	African-American	20	6
	Caucasian	322	94
pT stage	pT2	229	67
	pT3a	77	23
	pT3b	34	9
	pT4	2	1
Degree of Relative with Prostate Cancer*	First Degree	169	99
	Second Degree	2	1
Age at Diagnosis (mean, in years)	Family History	59.6	
	No Family History	59.7	
* Applies to the cohort of cases with a Family History of Prostate cancer (n = 171)			

